DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING SERVICES
Office of Structural Materials
Quality Assurance and Source Inspection

Bay Area Branch
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Contract #: 04-0120F4
Cty: SF/ALA Rte: 80 PM: 13.2/13.9
File #: 69.15

SOURCE INSPECTION REPORT

Resident Engineer: Pursell, Gary
Address: 333 Burma Road
City: Oakland, CA 94607

Report No: SIR-001599
Date Inspected: 09-Nov-2009

Project Name: SAS Superstructure
Prime Contractor: American Bridge/Fluor Enterprises, a JV
Contractor: Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island

OSM Arrival Time: 700
OSM Departure Time: 1900
Location: Changxing Dao, Shangha

Quality Control Contact: William (Bill) Oak
Quality Control Present: ☑ Yes ☐ No
Material transfer: ☐ Yes ☐ No ☑ N/A
Sampled Items: ☐ Yes ☐ No ☑ N/A
Stock Transfer: ☐ Yes ☐ No ☑ N/A
OK to Cut: ☐ Yes ☐ No ☑ N/A
Rebar Test Witness: ☐ Yes ☐ No ☑ N/A
Delayed/Cancelled: ☐ Yes ☐ No ☑ N/A
Other: Coatings Inspection
Bridge No: 34-0006
Component: Tower Splice Plates, OBG 7BE, OBG 6CW, E
Bid Item: 77, 78, 79
Lot No: B265

Summary of Items Observed:

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. James Lumley arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

OBG 7BE

Base metal surfaces of the Upper “U” Rib Stiffeners and Upper Chevron Assemblies and FL-2-1 Beams were abrasive blasted to an SSPC SP-10 condition and Interzinc 22 applied. Work locations were from Panel Points# 50-52. Chloride testing was performed and values were 10 & 20us/cm respectively. Profile amplitude was 61-82um. A total of 3 subsequent inspections were performed until base metal surfaces were compliant with SSPC SP-10 condition.

Sub-Assemblies Tower

Base metal surfaces of 30 MP3-300 L-Splice Plates were abrasive blasted to an SSPC SP-10 condition and Interzinc 22 applied.

OBG 6CW

Base Metal surfaces of the segment support pedestals were abrasive blasted to an SSPC SP-10 condition and Interzinc 22 applied. Also ZPMC abrasive blasted approximately a 2 square meter location on the internal surface which was observed to have been coated during non compliant ambient conditions, the abrasive blasted internal surfaces do not reflect the actual amount of work nor locations described in the Incident Report which was developed as a result of the non compliant work activities performed by ZPMC.

East Tower Lift 1

Internal surfaces of base metal and previously coated areas were de-greased in accordance SSPC SP-1water

washing operations were cancelled as welding was going on in the proximity of the work located from 0-9M Diaphragm.

OBG 7BE

Base Metal surfaces of the Lower Floor areas of the “T” Stiffeners located on the Bottom and Side Plates were abrasive blasted for VT inspection and grinding operations followed afterward. Work was performed from Panel Points #50-52. VT was performed by Caltrans Tim McClendon and mapped accordingly.

Note: Maintenance work still on going inside blast workshop #2 repairs to Blasting and or Vacuum equipment.

Note: All inspections were performed jointly with ABF & ZPMC QA/QC representatives and Caltrans QA Lumley when achievable. International Protective Coatings technical service representative were available for inspections and consultation.

Summary of Conversations:

No relevant conversations on this date.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang. (858) 699-9549, who represents the Office of Structural Materials for your project.

Inspected By:	Lumley,James	Quality Assurance Inspector
Reviewed By:	Miller,Mark	QA Reviewer